

Release date:

2/13/2023

Condition

| Applicable Vehicles | | | | | | | | |
|--|-----------|-----------|-------------|-------------------|--------------|--|--|--|
| Model(s) | Year | Eng. Code | Trans. Code | VIN Range From | VIN Range To | | | |
| Golf, Golf GTI, Golf R, Atlas, Atlas Cross Sport, Tiguan, Jetta, Arteon, Taos | 2020-2023 | All | All | All | All | | | |

| Instance Number | Published Date | Version Number | Reason For Update |
|-----------------|----------------|----------------|--|
| 2055190/4 | 2/13/2023 | 57-19-02 | Update to model and model year applicability |
| 2055190/3 | 3/2/2021 | 57-19-02 | Update to model and model year applicability |
| 2055190/2 | 12/03/2019 | 57-19-02 | Remove model year 2018, add time and mileage applicability limits, add Golf and Gol GTI, clarify VAS 6356 requirement, update 12 Volt battery maintainer tool number. |
| 2055190/1 | 6/4/2019 | 57-19-02 | Original publication. |

Note:

This technical bulletin is applicable up to 12 months in service or 12,000 miles (whichever comes first).

Customer reports one or more of the following conditions is present or has occurred:

- The remote control key buttons do not work.
- The vehicle does not start unless the key is held against the steering column.
- The vehicle cannot be unlocked/opened from the outside with the remote control buttons.

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- The following message appears in the instrument cluster: "Replace key battery".
- The following message appears in the instrument cluster: "Key battery low".

One or more of the following DTCs may be stored in the -*J519*- Central Electrics Control Module (BCM) (diagnostic address 09).

- B147918 Remote key 1 Voltage too low (static or sporadic).
- B147A18 Remote key 2 Voltage too low (static or sporadic).
- B147B18 Remote key 3 Voltage too low (static or sporadic).

i Tip:

In vehicles equipped with KESSY, a message pertaining to the key battery condition may be displayed in the instrument cluster without setting one of these DTCs.

Technical Background

There is no specification for testing the open circuit voltage of key batteries. Open circuit voltage testing using a voltmeter will result in misdiagnosis of the actual key battery condition.

Production Solution

Not applicable.

Service

If diagnosis leads to the key battery as the suspected cause of the remote key concern, it is necessary to check the key battery using the applicable Guided Fault Finding (GFF) test plan.

Only replace the key battery according to the GFF test plan result. The completed GFF Test plan must be uploaded to Volkswagen via GFF Paperless or retained by the dealer (electronically or otherwise), as it may be subject to request. The measurements in the test plan must be performed using a VAS 6356 test instrument box connected to the ODIS tester (results obtained from manual entry of default values into the test plan are not valid).

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Locating the test plan:

| | | | TSB | Test plan | Operation | Special Functions | |
|------------------|-----------------------|----------|----------|-------------|-------------|-------------------|---|
| l'ests in currer | and the second second | | | | | | |
| Status | Tests (sor | ted acc | cording | to chance | s of succes | ss) | |
| - | 0009 | - Remo | ite cont | rol battery | check | | |
| | | | | | | | |
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| | | | | | | | |
| 009 - Remo | te control b | attery o | heck | | | | 0 |
| _ | | | | | | | Y |
| Perform test. | Docume | ints Se | elect se | If test F | emove. | | |
| | | | | | | | |

- Key battery diagnosis is performed using the GFF test plan "0009 Remote control battery check".
- If the test plan was attached automatically based on DTCs, click "Perform test" to begin. •

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| ts in current test plan | | |
|--------------------------------|---|-----------|
| Status Tests (sorted according | to chances Diagnosis-capable systems | <u>^</u> |
| No diagnostic objects a | re suspecter Non-diagnostic-capable systems | |
| | Software version management | |
| | Vehicle information documents | |
| | Documents Function test instructions | |
| | Service work for vehicle handover | |
| | Special tools | |
| | Documents harness connectors | |
| | | 2 |
| | Docursents Attach to the test pla | n 🔍 Close |
| | | |
| (1) | | |

If the test plan was not attached automatically, it will be necessary to locate and add it manually.

- Click "Select self-test" (1).
- Click the magnifying glass icon (2).

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| sts in cun | ent test plan | G Search | D X |
|------------|---|---|-------|
| Status | Tests (sorted according to chances of success) No diagnostic objects are suspected at this time. | Search expressions Remote control battery Object types Outron Turnstons Comprises object Disconservent Search results | |
| | | Object type Location Diagnostic object 0009 - Remote control battery check | So to |

- Then enter "Remote control battery" as the search term (3).
- Select the result "0009 Remote control battery check" (4).
- Click "Go to" (5).

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| its in curr | ent test plan | C Test svaniew | | | |
|-------------|---|---|-----|----|--|
| Status | Tests (sorted according to chances of success) No diagnostic objects are suspected at this time. | 0009 - Component protection 0009 - Read anti-theft warning system alarm sources 0009 - Deactivate production mode 0009 - Test lighting system 0009 - Test gipting system 0009 - Reset vehicle settings 0009 - Reset vehicle settings 0009 - Test run Remotestart 2.0 0009 - Adapt remote start remote control 0009 - Adapt remote start remote control | | • | |
| | | 🔅 Decuments Attach to the test plan | Clo | se | |

- Select the test plan "0009 Remote control battery check" (6).
- Click "Attach to the test plan" (7).
- Once the test plan is attached, select it, and click "Perform test".

С Тір:

It is also possible to find the test plan by drilling-down through the self-test selections as follows:

Diagnosis-capable systems -> 0009 – Vehicle Electrical Control Module System -> 0009 – Functions, Electronic central electric -> 0009 – Remote control battery check.

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Overview of the test instrument setup for voltage measurement in the test plan:

The test plan will require setting up the test instruments to provide 320 Ohms across the key battery during the voltage measurement.



During the GFF test plan, the VAS 6345 resistor decade will be used together with the VAG 1594/19A extension leads.

- The voltage measurement is performed within the test plan, using the VAS 6356 test instrument box.
- The resistance will be validated within the test plan before proceeding to measure voltage.
- The free ends of the leads are held against the positive and negative sides of the key battery during the voltage measurement.

Overview of identifying the key remote data:

The following data will be requested within the GFF test plan (see examples below):

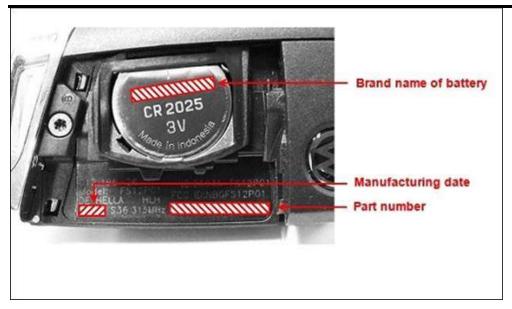
- The brand name of the battery.
- The part number of the remote control.
- The manufacturing date of the remote control in WW/YY format.

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Identification of data for Hella remote key.



Identification of data for Continental remote key.

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| R | el | ease | date: | 2/ | 11 |
|---|----|------|-------|----|----|
| ĸ | e | ease | date: | 2/ | |

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Warranty

Г

If a key battery is replaced, a completed GFF test plan must available to support the claim.

| Model(s) | Year(s) | | Eng. Code(s) | Trans. Code(s) | VIN Range From | | VIN Range To |
|---|-----------------|---|--|---|---|------------------|-----------------|
| Golf, Golf GTI, Atlas, Atlas Cross Sport, Tiguan, Jetta, Arteon, Taos | 2020-2023 | | All | All | All | | All |
| | | | SAGA | Coding | | | |
| Claim Type: | Use | e applica | ble Claim Type ¹⁾ | | | | |
| Service Number: | | Damage Code | | | Damage Location (Depends on Servic No.) | | |
| 5785 | | | 0040 | | | | |
| Parts Manufacturer | | Golf R, – ba | ss Sport, Arteon, ttery replaced to test plan | | | /O ²⁾ | |
| | | | Taos – battery re | Golf, Golf GTI, placed according t plan | | | E ²⁾ |
| (diagnosis only, not support rep | | | y <u>not</u> replaced K21 ²⁾ as test plan does placement of key tery). | | 1 ²⁾ | | |
| Labor Operation (battery replaced) | sender repaired | 57854100 = see E Time expenditure. | | atest time | e units + GFF | | |
| Labor Operation (diagnosis) | replaced | Select GFF Time expenditure. (Max. 75 TU) | | | x. 75 TU) | | |
| Causal Part: (typ | 32 batter | v) | N 10528301 | | | | |

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| Causal Part: (type CR2025 batte | ery) | N 10437301 | | | | | |
|--|---|---------------|-----|--|--|--|--|
| Diagnostic Time 4) | | | | | | | |
| GFF Time expenditure | 01500000 = Actual GFF print out (75 TU max.) | | YES | | | | |
| Road Test | 01210002 = 00 TU 01210004 = 00 TU | | NO | | | | |
| Technical Diagnosis | NO | | | | | | |
| Claim Comment: Input "As per Technical Bulletin 2055190" in comment section of Warranty Claim. | | | | | | | |
| ¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only ²⁾ Code per warranty vendor code policy. | | | | | | | |
| ³⁾ Labor Time Units (TUs) are su | oject to change with | ELSA updates. | | | | | |

⁴⁾ Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

No special parts required.

| Tool Description | Tool No: |
|--------------------------------------|--|
| Midtronics Battery Tester/Maintainer | GRX3000VAS |
| | or |
| | MTRMSP0702 |
| VAS Diagnostic Tool | VAS 6150/X & VAS 6160/X and ODIS Service with: current online updates |
| Test Instrument Box | VAS 6356 |
| Resistor Decade Box | VAS 6345 (or equivalent) |
| Extension Leads | VAG 1594/19A (or equivalent) |

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

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